# Measurement of deeply virtual Compton scattering off helium-4

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Abstract

# I. INTRODUCTION

#### II. THEORETICAL FRAMEWORK

- A. The GPD Formalism
- B. Incoherent Nuclear DVCS
- C. Coherent Nuclear DVCS

#### III. THE E08-024 EXPERIMENT

- A. The CLAS DVCS Setting
- B. The Radial Time Projection Chamber

#### IV. DATA ANALYSIS

- A. Particle Identification
- B. Monte-Carlo Simulation
- C. Kinematic Corrections
- D. Background Reduction

## V. INCOHERENT DVCS

- A. Event Selection
- B. Systematic Errors

## VI. COHERENT DVCS

- A. Event Selection
- B. Systematic Errors

## VII. RESULTS

2

- A. Incoherent DVCS
- B. Coherent DVCS